

HAMMAD UR REHMAN

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Opening

Backend engineer with a focus on **agentic AI** and production systems. I've built REST APIs and **RAG pipelines** across two internships and several shipped projects, including a Medical VQA system that won first place at my university's FYP showcase.

Skills

Languages:	C, C++, Python, JavaScript
Backend:	NestJS, FastAPI, REST APIs, Authentication
AI / LLM:	Agentic AI, RAG Pipelines, LangChain, Vector Databases (FAISS), Prompt Engineering
Tools:	MySQL, Apache, Git
Data:	Pandas, NumPy, Matplotlib, Power BI, Excel

Education

Bachelor of Science in Computer Science *Sept 2022 – June 2026*
Bahria University E-8, Islamabad CGPA: 3.05/4.00

Experience

Backend Developer Intern *June 2025 – Aug 2025*

Agentic Soft

- Built and maintained production REST APIs using FastAPI and NestJS
- Developed **agentic AI workflows** and integrated LLM-powered features into backend services
- Prototyped a **RAG pipeline** using vector embeddings and semantic retrieval for internal tooling

Data Analyst Intern

Sept 2025 – Oct 2025

SoftBox Technologies

- Performed exploratory data analysis using Pandas, NumPy, and Matplotlib on structured datasets
- Created Power BI and Excel dashboards, presenting data-driven insights to non-technical teams

Projects

VisiHealth AI – Medical Visual Question Answering System (FYP) *1st Place, FYP Open House 2026*

- Built a MedVQA system using Dual-Encoder + Multi-token Cross-Attention with BioLinkBERT on the SLAKE dataset
- Engineered backend APIs for model inference, ROI localisation, and data processing pipelines

AccessHire – AI-Powered Job Portal for Visually Impaired

- Engineered a NestJS and MongoDB backend with REST APIs, JWT authentication, and a job recommender system
- Integrated AI-powered speech-to-text & text-to-speech via a FastAPI microservice for fully accessible UX

VelocityMD – Doctor Scheduling System

- Designed RESTful APIs and scheduling logic for appointments and conflict detection (FastAPI)

Narrative Mutation Tracker – RAG-Powered Misinformation Pipeline

- Built a RAG pipeline to trace viral news claims across media using semantic search and LLM reasoning (Python, LangChain, FAISS, FastAPI)
- Engineered origin detection, narrative drift scoring, and source credibility analysis

Honors & Achievements

- **1st Position (CS Dept)** – FYP Open House 2026 — Bahria School of Engineering & Applied Sciences
- **Certifications** – Foundations in Generative AI, Machine Learning Explainability, Introduction to Model Context Protocol, Model Context Protocol: Advanced Topics